

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/22523

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : H01H 19/00, 21/00; G05G 5/00

US CL : 200/296,336; 74/527

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 200/11r, 11d, 11da, 11g, 295, 296, 335-337, 53-574; 74/527

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,551,587 A (ROSE) 05 November 1988 (05.11.1988) Note detent subassembly 22-25 in Fig. 1 and panel 2 located between lower portion 5,6 and upper portion 4 of housing or bushing component 1 in figure 2. Note column 1, line 60 to column 3, line 28.	1,4,5,6;12-14
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Y		2
Y	US 6,043,855 A (GRAVE) 28 March 2000 (28.03.2000) Figure 2, knob 105.	2
A	US 4,112,587 A (PIBER) 05 September 1978 (05.09.1978) Bushing 12, upper portion 36,32; panel 52; bushing lower portion 12,12a noting figures 6-11. and column 5, line 5 to column 6, line 64.	1-14
Y	US 3,560,672 A (LUDLUM et al) 02 February 1971 (02.02.1971) Rotary switch shaft 14 with attached knob 92,94 noting figures 1 and 2.	2
A	US 5,862,715 (LEMIRE) 26 January 1999 (26.01.1999) Vertical spring 124,154,188,260 of the detent assembly located in bore parallel to the shaft.	1-14
A	US 4,490,588 A (GUENTHER et al) 25 December 1984 (25.12.1984) Detent assembly 11,15-17 and bushing 2 noting figure 2.	1-14

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents.

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" late document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

23 September 2003 (23.09.2003)

Name and mailing address of the ISA/US

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**Continuation of Item 4 of the first sheet:**

The title does clearly described the focal point of the invention. The suggested new title is as follows:

--ROTARY SWITCH WITH MANUALLY ADJUSTABLE DETENT MECHANISM WITHIN THE BUSHING INCLUDING VERTICAL SPRING, PLUNGER AND DETENT BALLS--